User's Manual

22 LCD TV

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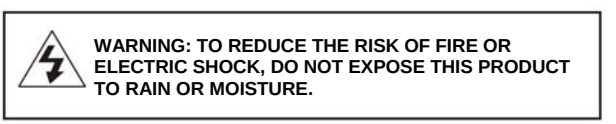
English

Important Safety Instructions

1. Read these instructions.
2. Keep these instructions.
3. Heed all warnings.
4. Follow all instructions.
5. Do not use this apparatus near water.
6. Clean only with dry cloth.
7. Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
8. Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
9. Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
10. Only use attachments/accessories specified by the manufacturer.
11. Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/ apparatus combination to avoid injury from tip-over.

12. Unplug this apparatus during lightning storms or when unused for long periods of time.
13. Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.
14. Apparatus shall not be exposed to dripping or splashing and no objects fill with liquids, such as vases, shall be placed on the apparatus.
15. To reduce the risk of electric shock, do not remove the cover of the apparatus. Refer any servicing to appointed service personnel.
16. The readily operable appliance coupler will serve as the disconnecting device of this apparatus.
17. The apparatus must be connected to a mains socket outlet with a protected earthed connection.
18. Maintain a minimum of 10cm free space around the apparatus for proper ventilation.
19. Used or discharged batteries must be properly disposed of or recycled in compliance with all applicable laws. For detailed information, contact your local solid waste disposal authority.
20. When purchased or used in different countries, use an appropriate power cable which is compliant with local laws and regulations.
21. To prevent injury, this apparatus must be securely attached to the floor/wall in accordance with the installation instructions
22. Do not install this equipment in a confined space such a book case or similar unit.
23. No naked flame sources, such as lighted candles, should be placed on the apparatus. installation instructions.



This symbol is used to indicate uninsulated "dangerous voltage" within the product's enclosure that may cause electric shock.

The exclamation point within an equilateral triangle is intended to alert the user to the important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

"CAUTION"
These servicing instructions are for use by qualified service personnel only. To reduce the risk of electric shock do not perform any servicing other than that contained in the operating instructions unless you are qualified to do so.

Cautions

[Caution]
To protect your device from electrical damage, be sure to plug the cord into socket securely.

[Caution]
If you use the LCD TV with video games, computers, or similar products, keep brightness and contrast at a low level. Images with high level brightness or contrast may "burn on" the screen permanently.

[Tips for cleaning the LCD TV]

1. Wipe the LCD TV with soft or dry cloth.
2. DO NOT use solvent or methyl benzene. Harsh chemicals may damage your LCD TV.
3. Make sure the LCD TV is unplugged before you clean it.

[CATV]

Be sure to acquire due authorization from the broadcaster/CATV service provider/program owner before using the TV receiver to watch programs through UHF, VHF, or CATV.

[Installation and use of LCD TV]

1. Check the LCD TV power specification shown on the serial no./model tag. Be sure to use the power according to the specification. If you are unsure about the power requirement, please contact your distributor or local power company.
2. Make sure to plug into the poser cable into the socket securely. If you have problems plugging in, please contact your distributor.
3. DO NOT overload power sockets or extension cords. Overloading poses a risk of electric shock or fire.
4. DO NOT place any objects on the power cord. Keep your LCD TV away from any place that might cause damage to the LCD TV. Use only the correct power cord.
5. Switch off your LCD TV when it is not in use If the LCD TV will not be in use for a long time, unplug it to prevent the risk of fire.
6. The vent on the rear of the LCD TV is designed for ventilation and heat dissipation. Keep the vent clear.
7. DO NOT place the LCD TV on beds, sofas, or carpet, as this may block the vent.
8. DO NOT place the LCD TV in enclosed spaces, such as a on a bookshelf or in a TV cabinet as this may block the vent.
9. Keep the LCD TV away from high-temperature or heat-generating objects.
10. Keep the LCD TV away from direct sunlight.
11. DO NOT place the LCD TV on an unstable shelf or desk. Failing to do so may result in injury.
12. DO NOT allow foreign objects inside the LCD TV, as this poses a risk of electric shock or damage to the internal components.
13. When transporting the LCD TV, do not carry it by holding onto the speakers. Be sure to always carry the TV with two people holding it with both hands.
14. This equipment is for entertainment use only.
15. The device is not intended for use at visual display work places acc. BildscharbV.

Cautions

[Maintenance]
If any of following occurs, unplug the LCD TV and contact your distributor or appointed technician to repair the LCD TV:
1. The power cord or plug is damaged.
2. Liquid enters the LCD TV.
3. LCD TV is damp or wet.
4. LCD TV is damaged.
5. LCD TV malfunctions.

DO NOT attempt to repair the LCD TV by yourself. There are high voltages inside the cabinet which poses a risk of electric shock.

Changing parts
If the LCD TV requires new parts, ask for written proof of these required parts from the appointed technician.
Safety inspection
After the LCD TV is repaired, remember to ask the technician to conduct a routine safety inspection (based on the manufacturer's requirements) to make sure the LCD TV is safe.
If the LCD TV has been used longer than its life, please contact qualified technician for repair.

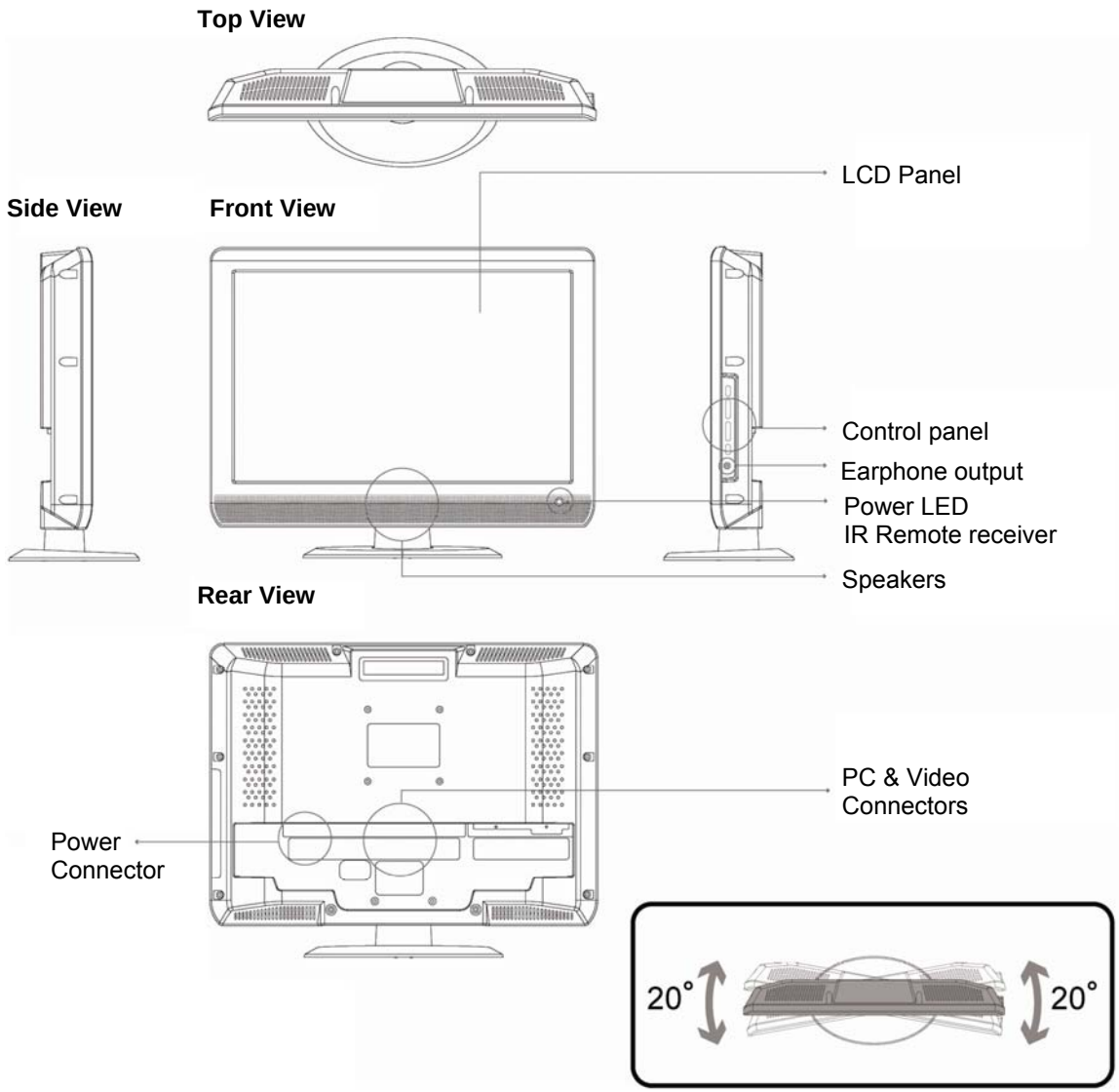
[User's record]
You can find the serial no. and model tag on the back of the LCD TV. Do provide the serial no. when you contacting the distributor or appointed service personnel.

Please read and comply with all warnings and instructions in the manual. Failing to do so may void the warranty. Modifying the LCD TV in any unauthorised manner will void the warranty immediately.

FCC Compliance Statement
This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:
(1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.
Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception which can be determined by turning the equipment off and on the user is encouraged to try to correct the interference by one or more of the following measures:
* Reorient or relocate the receiving antenna
* Increase the separation between the equipment and receiver
* Connect the equipment into an outlet on a circuit different from that to which the receiver is connected

Caution: To comply with the limits for an FCC Class B computing device, always use the signal cord and power cord supplied with this unit. The Federal Communications Commission warns that changes or modifications to the unit not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

European Notice
Products with the CE Marking comply with both the EMC Directive (89/336/EEC), (93/68/EEC) and the Low Voltage Directive (73/23/EEC) issued by the Commission of the European Community.



Swivel Stand

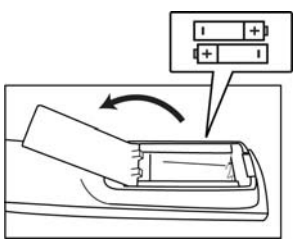
The LCD TV can be conveniently swivelled on its stand 20° to the left or right to provide the optimum viewing angle.

Accessories

1. Power cord
2. Remote control
3. AAA battery x 2
4. Manual

Installation of batteries

1. Insert two AAA batteries into the Remote control. Make sure + and - are facing the proper direction.
2. Replace the cover.



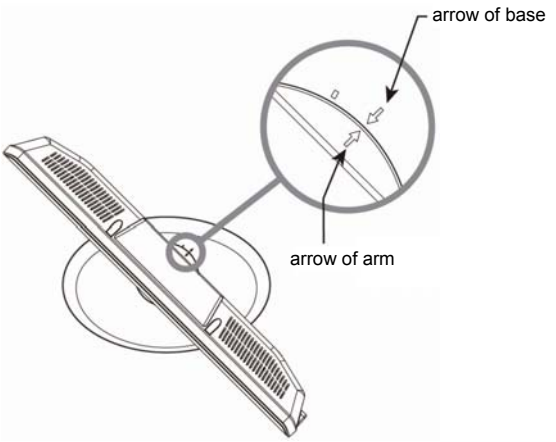
If the remote control will not to be used for a long time, remove the batteries.
Use the remote control carefully. Do not drop the remote control on the floor.
Keep it away from moisture, direct sunlight, and high temperatures.

Guidelines for Stand Setup

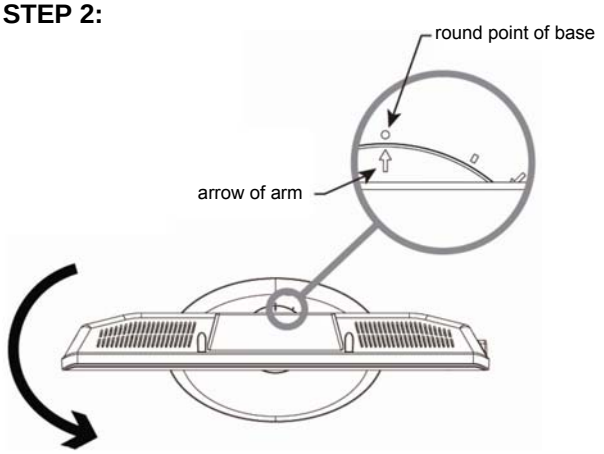
Stand Installation Instructions:

- To use the stand arrowhead put into combine and turn left on its stand to be placed in the middle position.

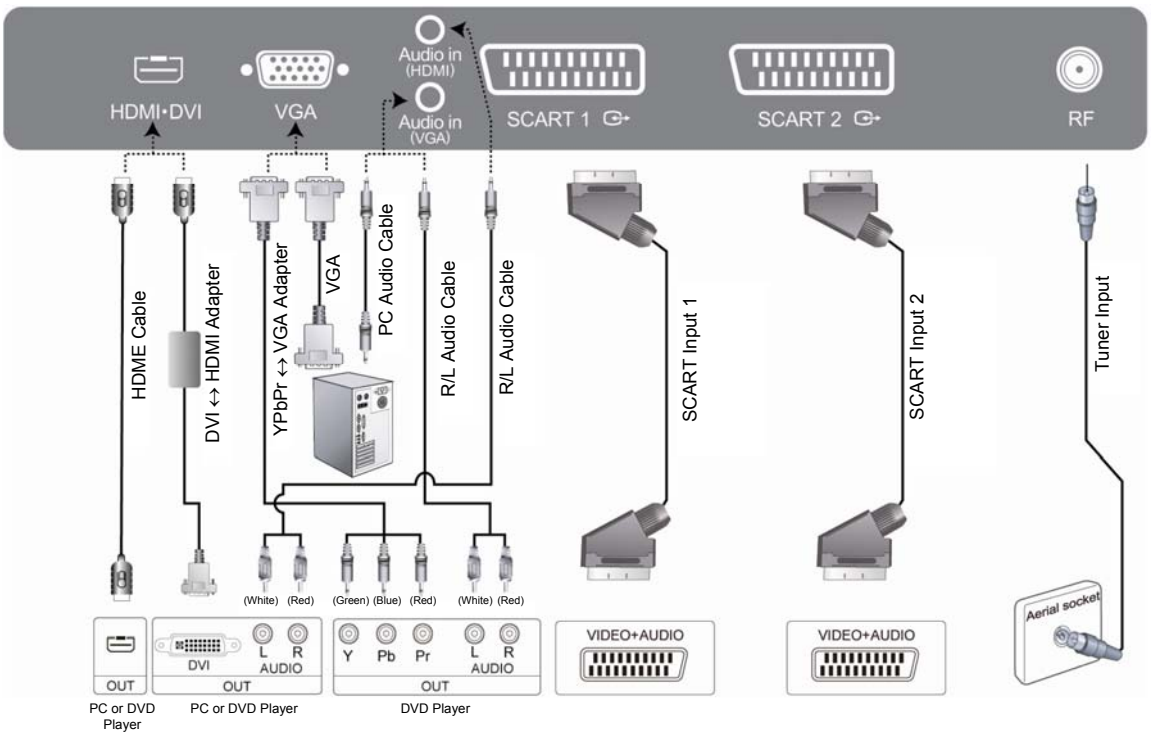
STEP 1:



STEP 2:



Input Connection

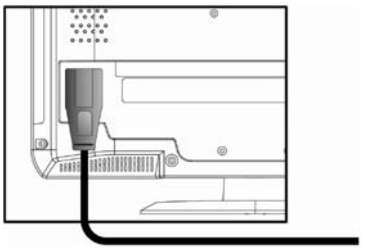


	Port	Functions
*	HDMI Input (digital) and Audio input	High Definition Multimedia Interface Connects to devices with digitals signals and can be used with PC or HDTV video signals. HDTV support timing: 1080i,720P,576i,576P,480i and 480P.
	VGA Input (analog) and Audio input	Connects to VGA analog signals sources.
*	VGA Support YPbPr Compatible and Audio input	Allows YPbPr signal source input through VGA connector.
	SCART 1	A connector for Europe, which uses the same connector to transmit AV, SRGB and Audio input signals; TV and Audio out signals.
	SCART 2	A connector for Europe, which uses the same connector to transmit AV, SRGB and Audio input signals; by main screen (TV, AV, SCART1/AV) and Audio out signals.
	Tuner Input	Connects to TV RF signals (antenna/CATV).

***** denotes optional item

Power Connection

Connect the AC power cord to the LCD-Display and plug into an appropriate wall outlet.

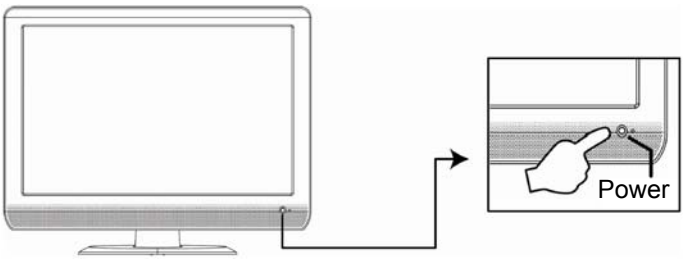


AC 100~240V

Power outlets differ from region to region.

Turning your LCD Display on

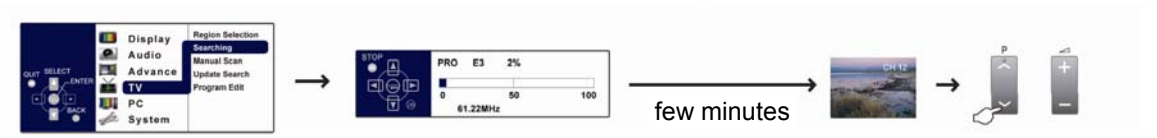
Press the **POWER** button on the front lower right of the TV to switch between on and standby modes.



Power indicator Status
Green -- Power on
Red ---- Standby.

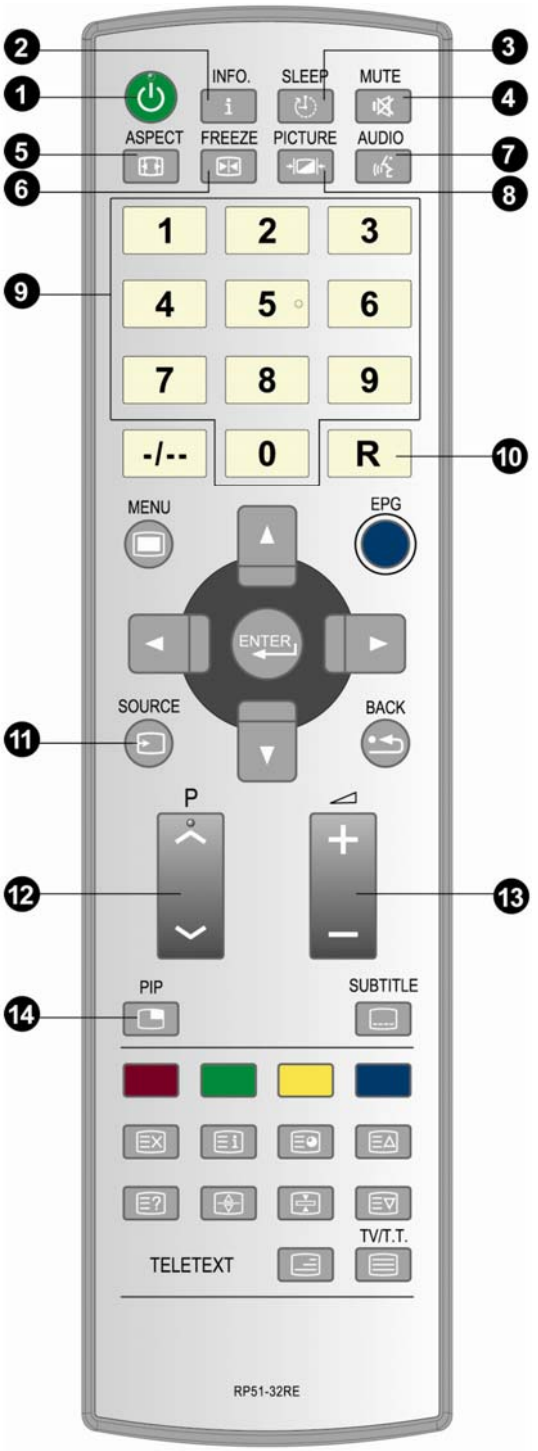
Programming TV channels

1. Press the **SOURCE** button on the remote control or press the **SOURCE** button on the control panel of the TV set to select TV mode.
2. Press the **MENU** button on your remote control to display the OSD menu.
3. Press the ◄/► button on your remote control to highlight **TV** and press the ENTER button to select.
4. Press the ◄/► button on your remote to highlight **COUNTRY** and press the ENTER button to select country.
5. Press the ◄/► button on your remote to highlight **Searching** and press the ENTER button to select to start the tuning process.
   (This process will take a few minutes. The tuning process will find all available channels.)
6. You can now watch TV. Change channels by pressing the P buttons.



LCD Display operation Control panel keys

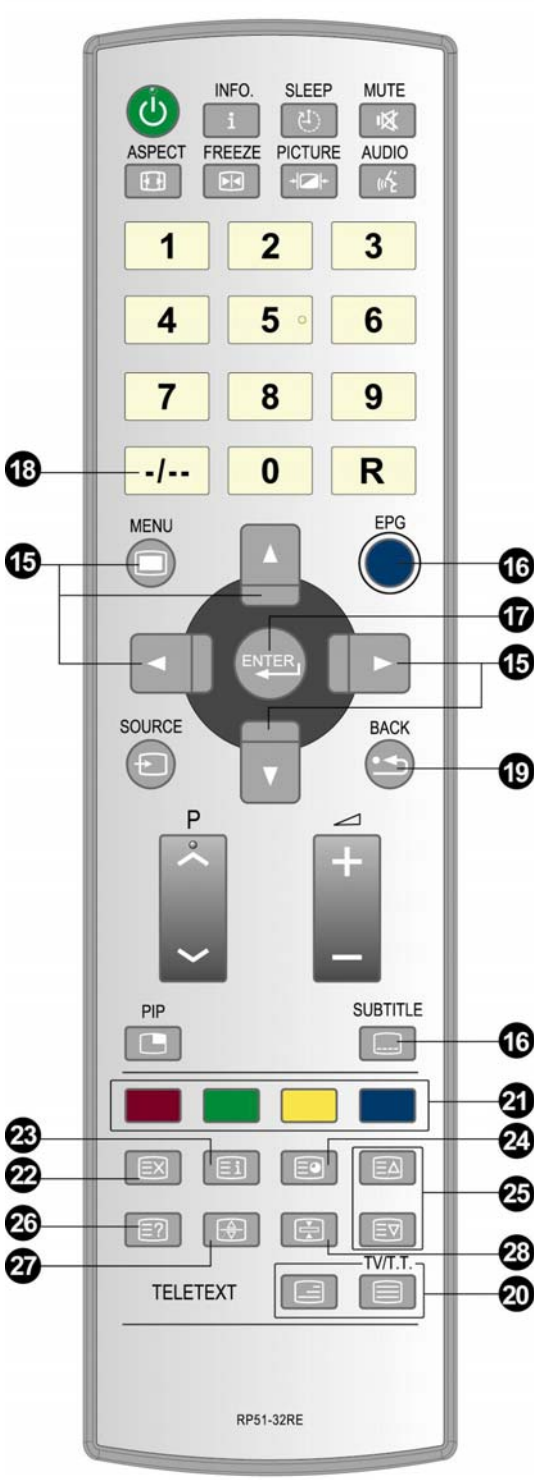
Button	Description
MENU	Press to display or close OSD. Use the four arrow keys (channel and volume adjustments) to navigate the menu options.
CH ^/v (FUNCTION ▲/▼)	Press to switch between preprogrammed channels. Press to move between functions in the OSD.
VOL + / - (ADJUST ◀/▶)	Press to adjust the volume. Press to adjust the values of a function.
SOURCE	Press to change between video input signals. Press the SOURCE button repeatedly to scroll through the following list of inputs: TV / SCART-1 / SCART-2 / YPbPr / VGA / HDMI.
Earphone Output	Connects to headphones (32Ω).



1. **POWER**
   Press to turn on the LCD Display or enter standby mode.
2. **INFORMATION (i)**
   Press to display the current signal status, including input source/channel/audio mode/picture mode.
3. **SLEEP**
   Press repeatedly to cycle through the available sleep time options 0/15/30/60/90/120 minutes.
4. **MUTE**
   Press to toggle audio on and off. Press again or press volume +/- to restore the previous volume level.
5. **ASPECT (screen scaling)**
   Press to activate one of the available screen aspect ratios. Full/Wide 1/Wide 2/16:9/4:3/Original/Letter box/Auto
6. **FREEZE** (frozen picture)
   Press to freeze the picture and press again to restore live viewing.
7. **AUDIO**
   Press to select STEREO, MONO, or dual I, dual II. If there is no second language available for the signal received LCD Display will audio output by mono.
8. **PICTURE**
   Press to select advanced picture setting. You can select from five different modes: User/Sport/Movie/Vivid/Game.
9. **0~9**
   Press 0~9 to select channels directly.
10. **RETURN**
    Press to return to the previous channel.
11. **SOURCE**
    Press to select the signal source you want. This button allows you to switch between signal sources.
12. **Program** ^ v
    press to selects the Channel.
13. **VOLUME +/-**
    Press to adjusts the LCD TV volume.
14. **PIP(Picture in picture)**
    Not available on this model.

TELETEXT

(Designed for Europe PAL/SECAM system only)



15. MENU ▲▼◀▶ (menu navigation)
Press to activate the LCD Display menu. Press again to quit the menu. You can press ▲▼◀▶ to select and confirm your selection.

16. FAV / PG / SUBTITLE / MHP
Not available on this model.

17. ENTER
To select Channel 1~9, you may press one of the number keys 1~9 directly, wait for a few seconds and then the channel will be shifted automatically, or press one of the number keys 1~9 and then press ENTER for direct access to the desired channel.

18. -/--
Press the key once and then enter a number to select Channel 1~9; or press the key twice and then enter a number to select Channel 10~99.

19. BACK

20. TEXT/MIX
Press to activate Teletext. Press again to activate Teletext with TV Press again to turn off Teletext.

21. R/G/Y/B
Press to select the pictures with various colors of text. Different channels display different functions.

22. UPDATE
Enter the page number then press (UPDATE) button and the teletext will indicate the page you optioned after searching by displaying the page number at the top side of screen.

23. INDEX (indexing)
Press to return to page 100 or the indexing picture; and then press 0 to 9. The teletext page will be numbered and added to the page you select or the secondary item.

24. SUB
Press to display the sub page (when available).

25. PAGE UP & DOWN
Press, followed by pressing the number keys to select the page you want view.

26. REVEAL
Press to reveal hidden information such as answers to a quiz.

27. SIZE:
Press this button to change the font size: Full screen, Top half and Bottom half.
-FULL(full screen).....standard full-screen text
-TOP(top half).....top half of page appears on the full screen
-BOTTOM(bottom half).. bottom half of page appears on the full screen.
(You can perhaps but these three items in a table to make it neater.)

28. HOLD
Press to stop the scrolling of text pages. The text decoder stops receiving data.

Display menu Using the advanced menu

1. Use the **SOURCE** button on the remote control to select the required mode.
   Once the signal source is detected, the selected system mode appears in the upper right corner of the screen.
2. After the system mode is selected, press the **MENU** buttons to perform the following functions:

DISPLAY
Shows more picture modes and functions based on your favorite channels and enables you to adjust the color and brightness setup.
Enables you to configure advanced picture settings.

AUDIO
Provides more audio selections. You can also set the audio environment of the LCD TV.

Advanced Video Setting
Provides settings for further adjustment of color and brightness of the screen based on the type of TV programs.

TV SETUP (for use with TV mode)
Enables you to adjust cable or antenna signal settings.

PC
Enables you to adjust the position and sharpness of the picture.

SYSTEM
Enables you to set the OSD language and OSD background.

Using the on screen display (OSD):

1. Press the **MENU** button on the remote control to display the main menu.
2. Press the ▲▼ buttons to highlight the menu entries.
3. Press the ► button to enter the submenu.
4. Press the ▲▼ buttons to highlight the item to be adjusted.
5. Press the ► to confirm your choice.
6. Press ◄► to adjust the setting.
7. Press the **MENU** button again to quit the picture.

NOTE:
Items in gray cannot be selected and adjusted.

DISPLAY (for TV / SCART / YPbPr)

Menu	Descriptions
Picture mode	Press ◄► to select the advanced picture setting. User / Vivid / Movie / Game / Sport
Contrast	Press ◄► to adjust the difference between the lightest and darkest areas of the LCD display screen. Contrast should be adjusted in conjunction with the brightness setting.
Brightness	Press ◄► to adjust the light level of the LCD display's screen. It should be adjusted in conjunction with the contrast setting.
Saturation	Press ◄► to adjust the color density/lightness.
Hue	Press ◄► to change the hue to make it redder or greener. The adjustment range is 0~100
Sharpness	Press ◄► to adjust the sharpness of the image.
Color-Temp	Press ◄► to adjust the color temperature. Cool / Warm / Normal
Back Light	Press ◄► to make the Back Light brighter or darker. The adjustment range is 0~7
Reset	Press ◄► to reset all Display function settings to their factory-set default values.

Display menu Using the advanced menu

AUDIO (for TV / SCART / YPbPr / VGA / HDMI)

Menu	Descriptions
Bass	Press ◀▶ to adjust the bass level. 0~100
Treble	Press ◀▶ to adjust the treble level. 0~100
Balance	Press ◀▶ to balance speaker channel. L=50, R=50
Sound mode	Press ◀▶ to adjust the Sound mode Off / On.
Reverb	Press ◀▶ to enable/disable sound effects.
Equalizer	Press ◀▶ to enable/disable the equalizer.
Speakers	Press ◀▶ to enable/disable the speaker.
Reset	Press ◀▶ to reset all Display function settings to their factory-set default values.

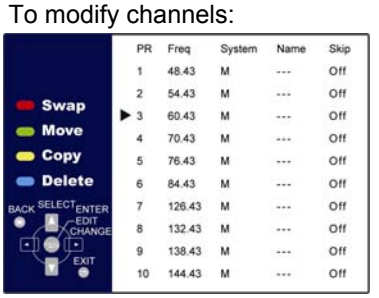
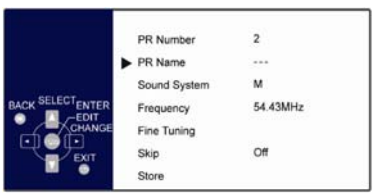
Display menu Using the advanced menu

ADVANCED (for TV / SCART / YPbPr)

Menu	Descriptions
Noise reduction	Press ◀▶ to adjust noise reduction level OFF Low/Middle/Hi.
DCI	Press ◀▶ to enable/disable the DCI (Dynamic Contrast Improvement) function. OFF/Low/Middle/Strong
Skin Tone	Press ◀▶ to adjust the Skin tone Off / On.
LTI	Press ◀▶ to enable/disable the LTI (Luminance Transient Improvement) function.
Reset	Press ◀▶ to reset all Display function settings to their factory-set default values.

Display menu Using the advanced menu

TV (for TV Setup)

Menu	Descriptions
Region Selection	Press ◀▶ to select your country.
Searching	Press ◀▶ to automatically scans for available channels.
Manual Scan	Press ◀▶ to select system, program no., name and search channel manually. Once TV detects a good signal, TV locks channel automatically and searching process stops.
Update Scarch	Channel Scanning Update
Program Edit	To modify channels:   **1. Swapping two channels:** After entering the PR-EDIT editing table, you can use the ▲ ▼ buttons to select a channel and press the (red) to highlight the channel you wish to change. Use the ▲ ▼ buttons to select a channel to switch and press the ENTER to switch the two channels. (Figure 4) **2. Delete channels:** Use the ▲ ▼ buttons to select a channel you wish to delete, then press the (blue) to Delete the channel. **3. Editing programs:** Use the ▲ ▼ button to select channel you wish to edit. Press the ENTER to enter the PR-EDIT editing table. Use the ▲ ▼ buttons to select the item, and use the ◀▶ buttons to edit the program. After editing the program, Please select Store to save PR-EDIT.

Display menu Using the advanced menu

PC (for VGA)

Menu	Descriptions
Auto	Press ◀▶ to allow the monitor to determine and select the horizontal and vertical adjustment, and clock and phase settings that are most appropriate for your system requirements.
Manual Clock	Press ◀▶ to adjust pixel alignment to help stabilize the VGA display.
H-Position	Press ◀▶ to adjust the horizontal VGA position of the LCD display's screen.
V-Position	Press ◀▶ to adjust the vertical VGA position of the LCD display's screen.
Reset	Press ◀▶ to reset all Display function settings to their factory-set default values.

Display menu Using the advanced menu

DISPLAY (for VGA)

Menu	Descriptions
Contrast	Press ◀▶ to adjust the difference between the lightest and darkest areas of the LCD display screen. Contrast should be adjusted in conjunction with the brightness setting.
Brightness	Press ◀▶ to adjust the light level of the LCD display's screen. It should be adjusted in conjunction with the contrast setting.
Color-Temperature	Press ◀▶ to adjust the color temperature. Cool / Warm / Warm
White Balance	Press ◀▶ to adjust the White Balance. Cancel / Yes
Back Light	Press ◀▶ buttons to make the Back Light brighter or darker. The adjustment range is Bright/Middle/Dark
Phase	Press ◀▶ to adjust the Phase. The adjustment range is 0~31
Color-Temp. R	Press ◀▶ to adjust the color temperature. Ray The adjustment range is -19~19
Color-Temp. G	Press ◀▶ to adjust the color temperature. Green The adjustment range is -19~19
Color-Temp. B	Press ◀▶ to adjust the color temperature. Blue The adjustment range is -19~19
Reset	Press ◀▶ to reset all Display function settings to their factory-set default values.

Display menu Using the advanced menu

DISPLAY (for HDMI)

Menu	Descriptions
Contrast	Press ◀▶ to adjust the difference between the lightest and darkest areas of the LCD display screen. Contrast should be adjusted in conjunction with the brightness setting.
Brightness	Press ◀▶ to adjust the light level of the LCD display's screen. It should be adjusted in conjunction with the contrast setting.
Color-Temperature	Press ◀▶ to adjust the color temperature. Cool / Warm / Warm
Back Light	Press ◀▶ buttons to make the Back Light brighter or darker. The adjustment range is Bright/Middle/Dark
Reset	Press ◀▶ to reset all Display function settings to their factory-set default values.

Display menu Using the advanced menu

SYSTEM (for TV / SCART / YPbPr / VGA / HDMI)

Menu	Descriptions
Language	Press ◀▶ to change the language in which the OSD menus appear.
Gamma	Press ◀▶ to select Gamma mode Hi / Middle / Lo
Parental	Press ◀▶ to Press Password To adjust Parental channel
Timer	Press ◀▶ for various time settings
OSD background	Press ◀▶ to select the opacity of OSD background.
Reset	Press ◀▶ to reset all Display function settings to their factory-set default values.

Other Information Troubleshooting

The following table contains common problems and the possible solutions.
Please check this list before you contact a technician.

Problems	Reasons	Solutions
No picture	1. Did you connect the power cord? 2. Did you turn on the power? 3. Is the signal cable connected correctly? 4. Is the screen in energy-saving mode?	1. Connect the power cord correctly. 2. Turn on the power. 3. Connect the signal cable correctly 4. Press any button on the computer.
Abnormal colors	1. Is the signal cable connected correctly ?	1. Connect the signal cable correctly.
Twisted picture	1. Is the signal cable connected correctly ? 2. Is the input signal of compatible frequency ?	1. Connect the signal cable correctly. 2. Please use a compatible signal.
Picture too dark	1. Are brightness and contrast set at the lowest level ?	1. Adjust brightness and contrast.
Audio only, no images	1. Is input signal connected correctly ? 2. Is the TV signal too weak ?	1. Please check if the input signal is connected correctly. 2. The TV-RF signal must not be lower than 50dB.
Picture only, no audio	1. Is the signal cable connected correctly ? 2. Is the volume at the minimum level ? 3. Is the audio signal cable not connected ? 4. Is the TV signal too weak ?	1. Connect the signal cable correctly. 2. Adjust the volume to proper level. 3. Connect the audio signal cable correctly. 4. The TV-RF signal must not be lower than 50dB.
Cannot use remote control	1. Is the battery dead? 2. Is there any disturbance from static or thunder ?	1. Please change the battery. 2. Turn off the power for 10 seconds; and then restart.

The following table contains common problems and possible solutions.

Problems	Possible solutions
Cannot receive sufficient channels through antenna	Please use the automatic scanning function to increase the number of channels not included in memory (Please refer to page 16)
No colors	Please adjust the color setup
Blinking picture accompanied by ghost image	Check the connection of antenna/signal cable. Check if the channel is in play mode Press signal source and change input mode
Broken lines or segments	Adjust the antenna Keep the TV away from noise sources, such as automobiles, neon lights, and hair dryers
Certain TV channels are blocked	Please use the automatic scanning method to add the channels not included in memory (Please check page 16)
Overlapping images or ghost images	Please use a multi-directional outdoor antenna (If your TV is subject to the influence of nearby mountains or buildings)
Cannot use a function	If the item you choose turns gray, that item cannot be selected.
Cannot receive programs	Please use the automatic scanning method to add the channels not included in memory (Please check page 16)

If you have further questions about any of the above, please contact your distributor.

Other information Specifications

Display panel	Active Area / Screen Size	22” TFT LCD
	Aspect Ratio	Widescreen 16:10
	Max. of Pixels	1680(H)X1050(V)
Compatibility	PC	640*480@60Hz 800*600@60Hz 1024*768@60Hz 1680*1050@60Hz
	Components HDMI	1080i / 720p / 576i / 576p / 480i / 480p
Power	Input Voltage	AC100-240V, 1.6A (max.), 50/60Hz
	Power Consumption	60W (Typical)
	Standby	<2 W
Environment	Operating	5 –35°C (41~95°F) / 10%~90% (no condensation)
	Storage temperature	-20 – 60°C (-4~140°F) / 10 %~90 % (no condensation)
Other	Built-in speaker	8Ω, 3W, x2 (Max)

English

Display engine

The minimum native resolution of the LCD display is at least 720 physical lines in wide aspect ratio.

Video Interfaces

The display device accepts HD input via:

- Analogue YPbPr1, and
- DVI or HDMI

HD capable inputs accept the following HD video formats:

- 1280x720 @ 50 and 60Hz progressive ("720p"), and
- 1920x1080 @ 50 and 60Hz interlaced ("1080i")

The DVI or HDMI input supports content protection (HDCP)